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FIELD MAINTENANCE PRINT SET

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B-TC-RXV21-0-1	FIELD MAINTENANCE PRINT SET
B-DD-RXV21-0	RXV21 FLOPPY DISK SYSTEM
D-UA-RXV21-0-0	RXV21 FLOPPY DISK SYSTEM ASSY.
B-DD-M8029-0	RXV21 LSI-11, RX02 CONTROLLER
D-UA-M8029-0-0	RXV21 LSI-11, RX02 CONTROLLER ASSY. (SH 1 &6)
K-PL-M8029-0-DBP	RXV21 LSI-11, RX02 CONTROLLER P/L
D-CS-M8029-0-1	RXV21 LSI-11, RX02 CONTROLLER SCHEMATIC
A-PL-RXV21-0-3	RXV21 SOFTWARE LIST
A-PL-RXV21-0-2	RXV21 SHIPPING LIST

UNIT VARIATIONS COVERED BY THIS PRINT SET
RXV21-0
RXV21-AA
RXV21-AC
RXV21-AD
RXV21-BA
RXV21-BC
RXV21-BD
RXV21-DA
RXV21-DC
RXV21-DD
RXV21-EA
RXV21-EC
RXV21-ED

RXV21

Field Maintenance Print Set

Digital Equipment Corporation

PRINT SET ORDER NO.
MP 00628

REVISIONS				
REV	CHG. NO.	DATE		
A	RXV21-ML001	1-79		
B	RXV21-ML002		D. Stiehl 10/82	M. HILERBRANT 3/1/82

DRB 124

USED ON OPTION/MODEL	
11/03	

SHEET 1 OF 1

DRN. BOB MORIN	DATE 9/8/78	digital	
CHK'D R.P.MORIN	DATE 9/8/78	TITLE: RXV21 FLOPPY DISK SYSTEM	
PROJ. ENG. J.GLAVIN	DATE 9-8-78	SIZE B	CODE TC
FIELD SERV. J.MARTINELLI	DATE 9-8-78	NUMBER RXV21-0-1	REV. B
		DIST.	

SIZE B | CODE TC | NUMBER RXV21-0-1 | REV. B

ML2

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DRAWING DIRECTORY

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UNIT VARIATIONS

VAR	TITLE
RXV21-Ø	RXV21 LSI-11 RX02 CONTROLLER(M8029)
RXV21-AA	RX02-AA W/RXV21 INTERFACE
RXV21-AC	RX02-AC W/RXV21 INTERFACE
RXV21-AD	RX02-AD W/RXV21 INTERFACE
RXV21-BA	RX02-BA W/RXV21 INTERFACE
RXV21-BC	RX02-BC W/RXV21 INTERFACE
RXV21-BD	RX02-BD W/RXV21 INTERFACE
RXV21-DA	RX02-DA W/RXV21 INTERFACE
RXV21-DC	RX02-DC W/RXV21 INTERFACE
RXV21-DD	RX02-DD W/RXV21 INTERFACE
RXV21-EA	RX02M-EA W/RXV21 INTERFACE
RXV21-EC	RX02M-EC W/RXV21 INTERFACE
RXV21-ED	RX02M-ED W/RXV21 INTERFACE

REVISIONS	CHK	CHANGE NO.	REV.
	CP	RXV21-ML001	A
	MR	RXV21-ML002	B
	C Duffield 1/26/82		
	M. HILDEBRANT 3/1/82		
	W. Hildebrant 3/1/82		

USED ON OPTION/MODEL: 11/03

SHEET 1 OF 3

DRN.	DATE	8 SEPT 78
CHK'D.	DATE	8 SEPT 78
PROJ. ENG.	DATE	9-8-78
PROD.	DATE	9-8-78

TITLE: RXV21 FLOPPY DISK SYSTEM

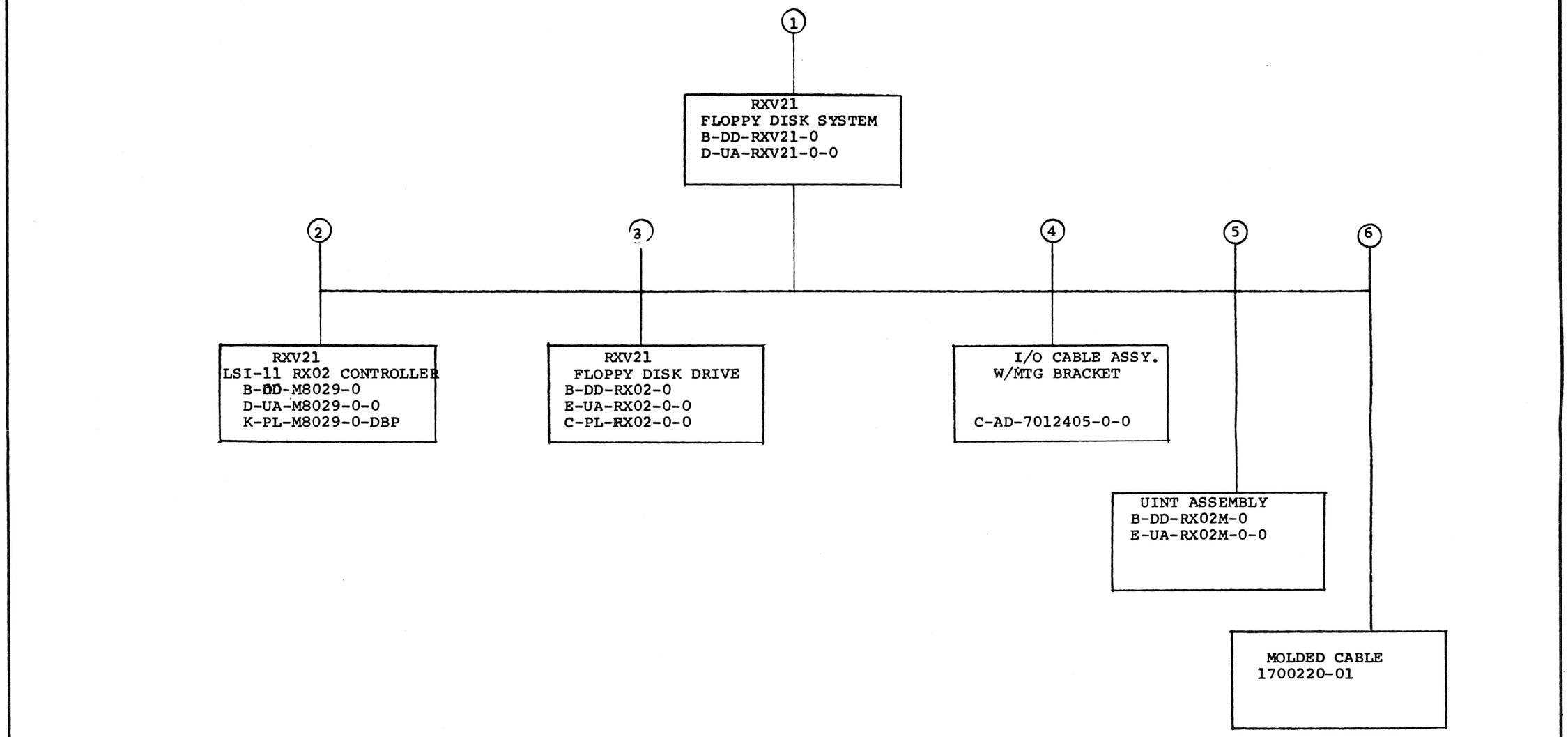
digital

SIZE	CODE	NUMBER	REV
B	DD	RXV21-Ø	B.

DIST.

DRB 106A

ML 2-



TITLE		SIZE	CODE	NUMBER	REV.
RXV21 FLOPPY DISK SYSTEM	SHEET 2 OF 3	B	DD	RXV21-0	B

DRB-107

FIND NO.	DRAWING NO.	DESCRIPTION	TYPE
1	MP00628	FIELD MAINTENANCE PRINT SET (MP)	-
	B-TC-RXV21-Ø-1	FIELD MAINTENANCE PRINT SET (TC)	-
	B-DD-RXV21-Ø	RXV21 FLOPPY DISK SYSTEM DRAWING DIRECTORY	-
	D-UA-RXV21-Ø-Ø	RXV21 FLOPPY DISK SYSTEM ASSY.	E/M
	D-IA-7412853-Ø-Ø	DUAL DRIVE FRONT PLATE	M
	A-SP-RXV21-Ø-4	RXV21 ENGINEERING SPECIFICATION	-
	K-PL-RXV21-Ø-DBP	RXV21 FLOPPY DISK SYSTEM ASSY.	
2	B-DD-M8029-Ø	RXV21 LSI-11 RX02 CONTROLLER DRAWING DIRECTORY	-
	D-UA-M8029-Ø-Ø	RXV21 LSI-11 RX02 CONTROLLER - ASSY	E
	K-PL-M8029-Ø-Ø	RXV21 LSI-11 RX02 CONTROLLER - P/L	E
	D-CS-M8029-Ø-1	RXV21 LSI-11 RX02 CONTROLLER - CIRCUIT SCHEMATIC	E
3	B-DD-RX02-Ø	RX02 FLOPPY DISK DRIVE SYSTEM - DRAWING DIRECTORY	-
	E-UA-RX02-Ø-Ø	RX02 FLOPPY DISK DRIVE - ASSY	E/M
	C-PL-RX02-Ø-Ø	RX02 FLOPPY DISK DRIVE - P/L	E/M
4	C-AD-7012405-Ø-Ø	I/O CABLE ASSY, W/MTG. BRACKET	E/M
	C-IA-7416923-Ø-Ø	BRACKET, CONN., MOUNTING	M
	C-IA-BC02C-Ø-Ø	I/O CABLE ASSY.	E/M
5	B-DD-RXO2M-Ø	UNIT ASSY (RXO2M)	
	E-UA-RXO2M-Ø-Ø	UNIT ASSY (RXO2M)	
6	17ØØ22Ø-Ø1	MOLDED CABLE	

FIND NO.	DRAWING NO.	DESCRIPTION	TYPE

TYPE: E ELECTRICAL
M MECHANICAL
E/M ELECTRO/MECHANICAL

digital

TITLE	SHEET	SIZE	CODE	NUMBER	REV
RXV21 FLOPPY DISK SYSTEM	3 OF 3	B	DD	RXV21-Ø	B

DRB 108A

ML 2

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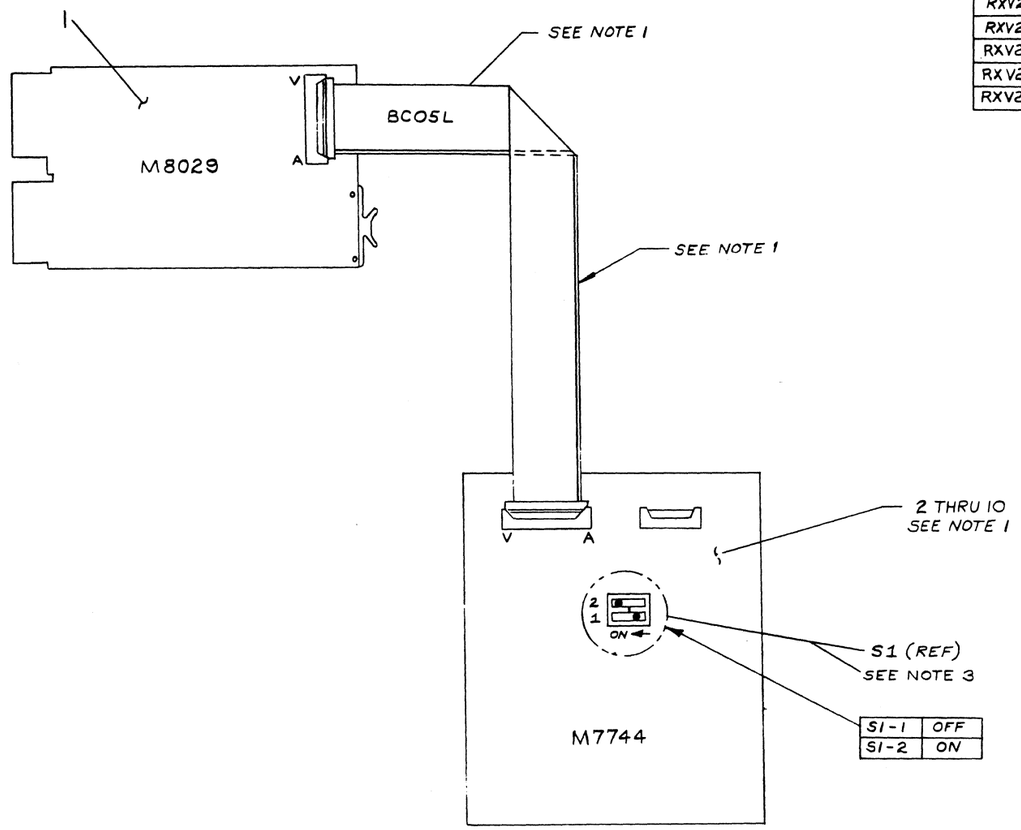

VARIATION LEGEND	
NUMBER	VARIATION
RXV21-Φ	RXV21 LSI-11 INTERFACE (M8029)
RXV21-AA	RX02-AA & RXV21-Φ INTERFACE, 115V, 60HZ
RXV21-AC	RX02-AC & RXV21-Φ INTERFACE, 115V, 50 HZ
RXV21-AD	RX02-AD & RXV21-Φ INTERFACE, 230V, 50 HZ
RXV21-BA	RX02-BA & RXV21-Φ INTERFACE, 115V, 60 HZ
RXV21-BC	RX02-BC & RXV21-Φ INTERFACE, 115V, 50 HZ
RXV21-BD	RX02-BD & RXV21-Φ INTERFACE, 230V, 50 HZ
RXV21-DA	RX02-DA & RXV21-Φ INTERFACE, 115V, 60 HZ
RXV21-DC	RX02-DC & RXV21-Φ INTERFACE, 115V, 50 HZ
RXV21-DD	RX02-DD & RXV21-Φ INTERFACE, 230V, 50 HZ
RXV21-EA	RX02M-EA & RXV21-0 INTERFACE, 115V, 60 HZ
RXV21-EC	RX02M-EC & RXV21-0 INTERFACE, 115V, 50 HZ
RXV21-ED	RX02M-ED & RXV21-0 INTERFACE, 230V, 50 HZ

NOTES:

1. MODULE M7744 & CABLE ASSY BC05L ARE SUPPLIED WITH THE RX02 FLOPPY DISK DRIVE ASSY.
2. RED STRIPE ON BC05L CABLE INDICATES PIN "A" ON THE CONNECTOR.
3. THE RX02 DISK CONTROLLER BOARD (M7744) MUST BE SWITCHED CORRECTLY FOR PROPER OPERATION WITH THE RXV21-Φ INTERFACE (M8029). SEE USER'S GUIDE EK-RX02-UG.
4. ITEM 11 IS USED AT D322 OPTION BY REPLACING FALSE FRONT ON BEZEL ASSY. SAME MOUNTING HARDWARE IS RE-USABLE (5 PLACES).
5. ITEMS 12, 13 & 14 ARE USED TO MOUNT BEZEL ASSY TO RX02 CHASSIS.
6. ITEMS #11 THRU #15 NOT SHOWN.

SEE OFF SHEET PARTS LIST:
K-PL-RXV21-0-DBP

REVISIONS			
CHK	CHANGE NO.	REV.	
MLW	RXV21-ML002	A	M. HILGEBEAR T31/82

	DESCRIPTION	DWG./PART NO.	ITEM NO.
	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		

ANGLES ±0° 30'	CLASS OF ACCURACY (CHECK ONE)	NOMINAL DIMENSION RANGE INCHES					
		OVER 0 TO 0.2	OVER 0.2 TO 1.2	OVER 1.2 TO 4.0	OVER 4.0 TO 12.0	OVER 12.0 TO 40.0	OVER 40.0 TO 80.0
SURFACE QUALITY IN MICROINCHES	MEDIUM ☐	±.004	±.008	±.012	±.016	±.024	±.04
	PREFERRED ☐	±.012	±.016	±.025	±.04	±.063	±0.1

QUANTITY & VARIATION

THIRD ANGLE PROJECTION

REMOVE BURRS AND BREAK SHARP CORNERS

DO NOT SCALE DWG

MATERIAL —

FINISH —

DRN. BCB MORIN 11/24/81
CHK'D
ENG.
PROJ. ENG.
PROD.

NEXT HIGHER ASSY. B-DD-RXV21-Φ

SCALE NONE

SHEET 1 OF 2

FIRST USED ON LSI-11

digital

TITLE
RXV21 FLOPPY DISK SYSTEM

SIZE	CODE	NUMBER	REV.
D	UA	RXV21-Φ-Φ	A

DIST.

DLC FORM NO. BSD 100-C

ML2

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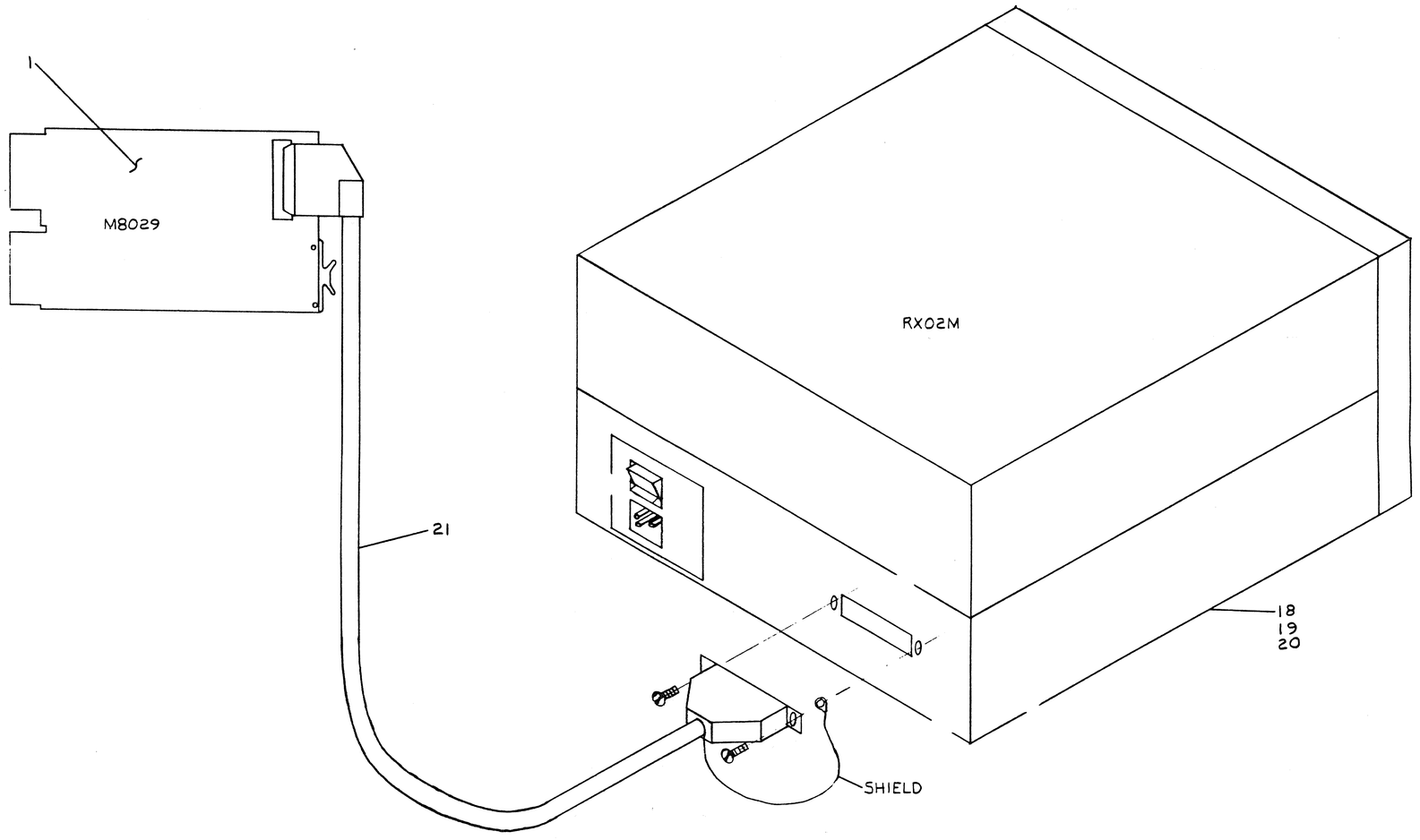

REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	SIZE	CODE	NUMBER	REV.
RXV21 FLOPPY DISK SYSTEM	D	UA	RXV21-0-0	A
SCALE NONE SHEET 2 OF 2	DIST.			

ML2

SIZE	CODE	NUMBER	REV.
B	DD	M8029-2	H

DRAWING NO.	NO. OF SHTS.	PART NO.	DESCRIPTION	REVISIONS
				* A B C D E F F
		M8029-0	RXV21 LSI 11 RXØ2 CONTROLLER	* A B C D E F F
D-UA-M8Ø29-Ø-Ø	1		RXV21 LSI 11 RXØ2 CONTROLLER	B C D E E F H J
K-PL-M8Ø29-Ø-DBF	2		PARTS LIST DATA BASE	B C D E E F H J
D-CS-M8Ø29-Ø-1	4		RXV21 LSI 11 RXØ2 CONTROLLER	B C D E E F H J
D-MD-5013080-0-0	5		DRILL & ETCH DWG.	B B B B B C C C
		5013Ø8Ø	ETCH BOARD	C C C C C D D D
M8Ø29-Ø-L			P.C. DESIGN DATA BASE	C C C C C D D D
D-EC-5013080-0-0	2		ETCH CUT DRAWING	- - - - - F H H
K-PC-M8Ø29-0-DBC			DATA BASE TAPE	- - - - - D D D
B-DD-M8029-0	1			- - - - D E F H
D-UA-M8029-0-0	6			- - - - E1 E1 E1 E1
B-PL-M8029-0-0	2			- - - - E1 E1 E1 E1
D-CS-M8029-0-1	4			- - - - E1 E1 E1 E1

NOTES:

REVISIONS			
REV.	CHG NO.	DATE	
A	00001	5-78	
B	ML002	11-78	
C	ML003	11-79	
D	ML004	3-80	
E	ML005	8-80	
F	ML006	3-82	
H	SH007	11-83	

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digital

USED ON OPTION/MODEL	
RXØ2	

DRN.	S.TUTTLE	12/20/77
CHKD.	D. Bassman	3 JAN 78
ENG.	Jerry L Ryan	24 FEB 78
PROD.	[illegible]	23 FEB 78

TITLE: RXV21 LSI 11 RXØ2 CONTROLLER

SIZE	CODE	NUMBER	REV.
B	DD	M8029-2	H

SHEET 1 OF 1

DRB 126

SHO

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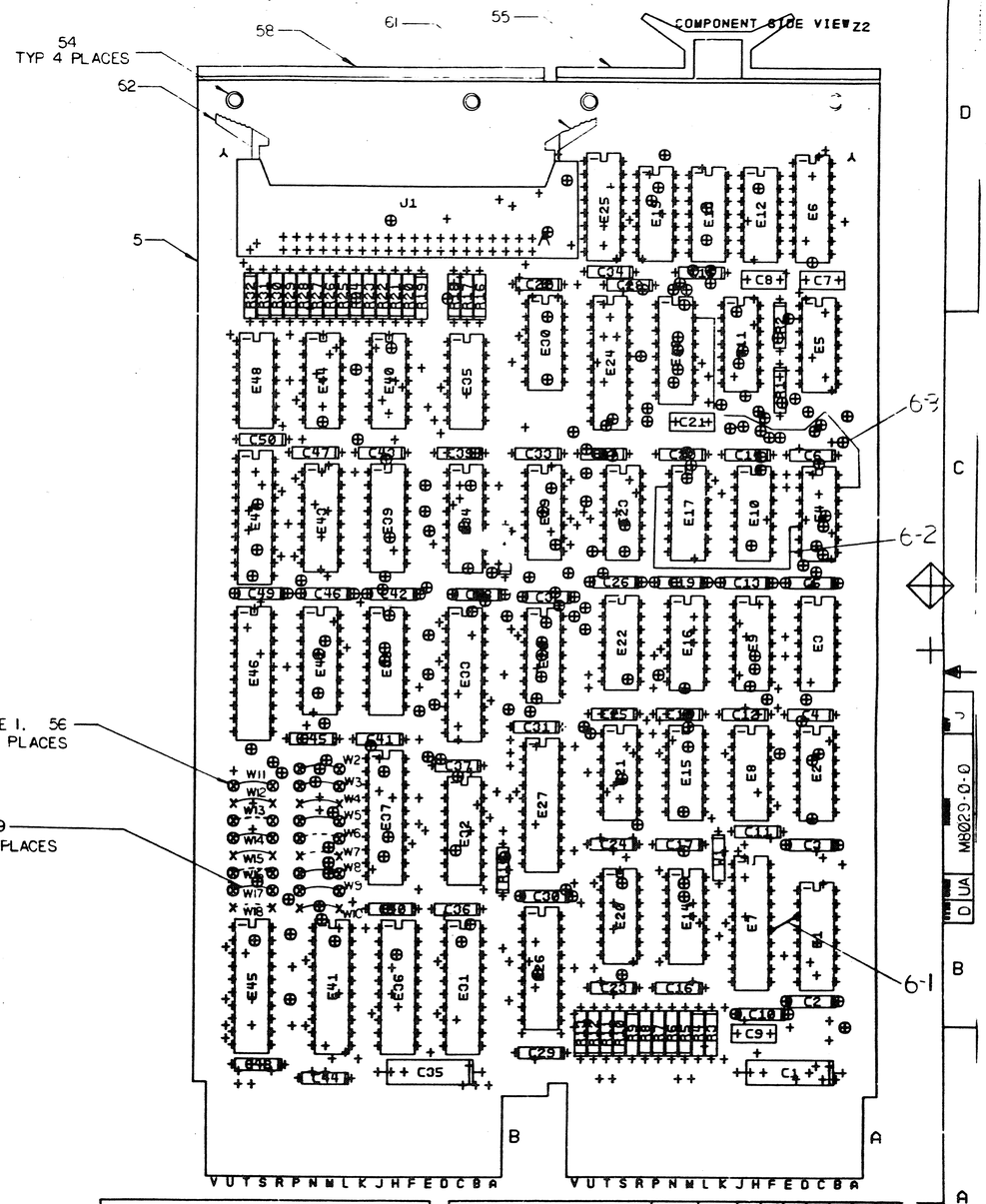
REWORK, WIRE ADDS

6-1 ADD ON SIDE 1, A WIRE FROM E7 PIN 15 TO E1 PIN 3

6-2 ADD ON SIDE 1, A WIRE FROM E4 PIN 5 TO E17 PIN 2

6-3 ADD ON SIDE 1, A WIRE FROM E4 PIN 13 TO E18 PIN 15



NOTES:

1. ITEM *56 ARE WIRE WRAP PINS. W2 THRU W18

STEP & REPEAT	↕ Y AXIS	STEP	TIMES
	↔ X AXIS	STEP	TIMES

CHG	CHANGE NO	REV
		F
		H
	M8029-SH007	J

ETCH REV. D-P3

SIGNATURES	DATE
DRN. J FITZGERALD	
CHK'D.	
MECH.ENG.	3/30/87
PROJ.ENG.	3/30/87
PROD.	3/30/87
SCALE 2/1	
SHT. 1 OF 1	
NEXT HIGHER ASSY. B-DD-M8029-Z	

digital

TITLE: RXV21 LSII RXCS CONTROLLER

SIZE	CODE	NUMBER	REV
D	UA	M8029-0-0	J

SH0

1 MS# 263735

TY Z1029H.LST
AUTOMATED BY PRTLST.2D(12)

P A R T S L I S T

LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY PER VARIATION 00	REFERENCE DESIGNATOR
1	1	D-CS-M8029-0-1		CIRCUIT SCHEMATIC	REF	
2	2	D-UA-M8029-0-0		UNIT ASSY	REF	
3	3	B-DD-M8029-0-0		DWG DIRECTORY	REF	
4	4	D-MD-5013080-0-0		DRILL &ETCH DWG	REF	
5	5		5013080-00	M8029	1	
6	6		1000016-00	100.0 MMF 100V 5%200PPM MICA	1	C8
7	7		1000018-00	120.0 MMF 100V 5%200PPM MICA	1	C21
8	8		1001610-00	.01 MFD 50V +80-20% Z5U CER	44	C2-C6,C10-C20,C22-C34,C36-C50
9	9		1017472-00	10 MFD 35V +50-10% AL EL	2	C1,C35
10	10		1000042-00	1000.0 MMF 100V 5%200PPM MICA	1	C7
11	11		1012121-00	220.0 MMF 100V 1%200PPM MICA	1	C9
12	12		1105275-00	*** THIS ITEM IS NOT USED ***	-	
13	13		1209941-02	PCB,HEADER 40PIN(2X20).100CC 90D	1	J1
14	14		1300247-00	120.0 .25 W 5.0 % CC	1	R19
15	15		1300295-00	330.0 .25 W 5.0 % CC	4	R5,R7,R10,R13
16	16		1300309-00	390.0 .25 W 5.0 % CC	6	R17,R20,R23,R24,R28,R30
17	17		1300365-00	1.0 K .25 W 5.0 % CC	4	R3,R14,R16,R26
18	18		1300479-00	10.0 K .25 W 5.0 % CC	1	R1
19	19		1301322-00	180.0 .25 W 5.0 % CC	7	R18,R21,R22,R25,R27,R29,R32
20	20		1301424-00	680.0 .25 W 5.0 % CC	4	R6,R8,R11,R12
21	21		1301972-00	270.0 .25 W 5.0 % CC	1	R9
22	22		1305265-00	39.20 K .25 W 1.0 % RN55D-F10	1	R2
23	23		1304856-00	4.64 K .25 W 1.0 % RN55D-F10	1	R4
24	24		1909705-00	DEC 8881 NAND GATE-QUAD 2IN O	2	E20,E35
25	25		1910155-00	DEC 7408 AND GATE,POS.QUAD 2I	1	E16
26	26		1910436-00	DEC 74123 ONE SHOT-DUAL,RETRIG	1	E6
27	27		1910544-00	74S74 FF-D DUAL,EDGE TRIGG	1	E5
28	28		1912854-00	LS193 COUNTER,SYNCHR,4BIT,	1	E25
29	29		1911469-00	DEC 8640 RECEIVER,BUS,QUAD,U	3	E14,E44,E48
30	30		1911527-00	8097 BUFFER GATE-HEX 2INP	3	E38,E39,E42

REVISION HISTORY			BASIC PART NO: M8029
ENG	ECO NUMBER	REV	SECTION A OF A
W.H	00000	B	SECTION.VARIATION INDEX
W.H	00001	C	[A] 00
C.Y	ML002	D	[B]
JR	M8029-ML003	E	[C]
DP	M8029-ML005	F	[D]
MH	M8029-ML006	H	[E]
			[F]
			[H]
			[J]
			[K]
			[L]
			[M]
			[N]

DRN: STEVE MARLOW	DATE: 11-MAY-78		D	I	G	I	T	A	L
CHK'D: W.CASSIDY	DATE: 11-MAY-78	TITLE: PARTS LIST							
		RXV21 LSI11 RX02 CONTROLLER							
DES.ENG: JENNY RYAN	DATE: 11-MAY-78								
RESP.ENG.: JENNY RYAN	DATE: 11-MAY-78	DOCUMENT NUMBER							
		SIZE: K	CODE: PL	NUMBER: M8029-0-DBP	REV: H				
MFG.ENG.: K.MERCADO	DATE: 11-MAY-78								
ASSEMBLY NUMBER: D-UA-M8029-0-0	TOP DOCUMENT NUMBER: *B-DD-M8029-0	FILE NAME: Z1029H.PLS	EDIT #: 18						

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ML 2

AUTOMATED BY PRTLST.2D(12)

P A R T S L I S T

LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY PER VARIATION 00	REFERENCE DESIGNATOR
31	31		1911579-00	8641 TRANSCEIVER,BUS,QUA	1	E1
32	32		1912647-00	LS257 MUX 1 OF 2 (QUAD)	1	E34
33	33		1912697-00	LS174 FF-D HEX W/CLEAR	1	E43
34	34		1912729-00	DC 004 PROTOCOL,REG. SELECT	1	E27
35	35		1912730-00	DC 003 INTERRUPT,2 CIRCUIT	1	E26
36	36		1912799-00	LS00 NAND-GATE-QUAD 2IN,P	1	E9
37	37		1912801-00	LS02 NOR-GATE-QUAD 2IN	3	E3,E11,E21
38	38		1912803-00	LS04 INVERTER GATE,HEX	2	E15,E19
39	39		1912805-00	LS08 AND GATE-QUAD 2IN,PO	1	E22
40	40		1912807-00	LS10 NAND GATE-TRIPLE 3IN	2	E17,E30
41	41		1912816-00	LS32 OR GATE-QUAD 2IN,POS	3	E2,E28,E40
42	42		1912824-00	LS74 FF-D DUAL,EDGE TRIGG	3	E10,E12,E29
43	43		1912849-00	LS161 COUNTER,SYNCHR,4BIT	1	E32
44	44		1912868-00	LS299 SHIFT REG. 8-BIT UNI	2	E33,E37
45	45		1913040-00	DC 005 TRANSCEIVER 4BIT	4	E31,E36,E41,E45
46	46		1914035-00	DC 006 BIPOLAR,BUS ADDRESS	2	E46,E47
47	47		1914038-00	DC 010 BIPOLAR,MEM ADRESS,L	1	E7
48	48		1811660-12	OSCILLATOR, XTAL 8.200 MHZ	1	E8
49	49		1912821-00	LS54 A-O-I GATE,3-2-2-3IN	1	E13
50	50		1910652-00	74174 FF-D HEX	1	E18
51	51		1909686-00	7404 INVERTER GATE-HEX 1I	1	E23
52	52		1911521-00	7432 OR GATE-QUAD 2IN, PO	1	E4
53	53		23065B1-00	B1-01	1	E24
54	54		9006732-00	EYELET,ROLLED 0.1210DX0.219	4	
55	55		9009337-06	HANDLE, FLIP CHIP, MAGENTA	1	
56	56		9009149-01	PIN,STAKING 0.235 HX0.345LG SQUA	34	
57	57		9009185-00	JUMPER, WIRE, INSULATED, BLACK B	1	W1
58	58		9009781-00	SPACER, MODULE, MAGENTA	1	
59	59		9105740-55	WIRE(WRAP)30AWG UL1423	12	W2-W5,W8-W12,W14,W15,W17
60	60		1303114-00	1.0 K .25 W 1.0 % RN55D-F10	1	R15
61	61		1209941-03	PCB,HEADER LATCH	1	
62	62		1209941-04	PCB,HEADER LATCH	1	
63	63		1001610-01	*** THIS ITEM IS NOT USED ***	-	
64	64		1301425-00	300.0 .25 W 5.0 % CC	1	R31
65	65	D-EC-5013080-0-0		ETCH CUT DRAWING	0	

D	I	G	I	T	A	L	TITLE	SIZE	CODE	DOCUMENT NUMBER	REV
							RXV21 LSI11 RX02 CONTROLLER SECTION A OF A	K	PL	MS029-0-DBP	H

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74LS174 E43
DI TS BUS 9 H — D5 — R5(I) — DI TS BUS 9 H
DI TS BUS 8 H — D4 — R4(I) — DI TS BUS 8 H
DI TS BUS 4 H — D3 — R3(I) — DI TS BUS 4 H
DI TS BUS 3 H — D2 — R2(I) — DI FUNCT 2 H
DI TS BUS 2 H — D1 — R1(I) — DI FUNCT 1 H
DI TS BUS 1 H — D0 — R0(I) — DI FUNCT 0 H
CLR CLK
D2 INIT L
D3 WRT CSR PLS H

D4 BTR H — 8097 E39 — DI TS BUS 7 H
8097 E39 — DI TS BUS 9 H
8097 E39 — DI TS BUS 8 H
D4 B ERROR H — 8097 E39 — DI TS BUS 15 H
8097 E38 — DI TS BUS 12 H
8097 E38 — DI TS BUS 4 H
8097 E38 — DI TS BUS 0 H
8097 E38 — DI TS BUS 13 H
D3 IE H — 8097 E39 — DI TS BUS 6 H
+3V2 — 8097 E38 — DI TS BUS 11 H
D3 RD CSR L
D4 B DONE H — 8097 E39 — DI TS BUS 5 H
8097 E38 — DI TS BUS 14 H

DI TS BUS 3 H — 8097 E42 — D2 DB SEL 1 L

74LS299 E37
D2 INIT L — CLR
D3 DB CLK H — CLK
D4 SER DATA H — SR
SL
D2 LO SEL 0 H — S0
D2 DB SEL 1 H — S1
ENA 1
ENA 2
DI TS BUS 7 H
DI TS BUS 5 H
DI TS BUS 1 H
DI TS BUS 0 H
DI TS BUS 2 H
DI TS BUS 4 H
DI TS BUS 6 H
DI DATA 7 H

74LS257 E34
+3V2 — B3 — f3 — DI TS BUS 3 H
A3
B2 — f2
A2
D4 RX AC LO H — B1 — f1
A1
D3 NXM (I) H — B0 — f0 — DI TS BUS 11 H
A0
OUT CONT S0
DI EN MUX L
D4 B DONE H

74LS299 E33
D2 SHFT RT H — SR
SL
D2 HI SEL 0 H — S0
S1
ENA 1
ENA 2
DI TS BUS 15 H
DI TS BUS 13 H
DI TS BUS 9 H
DI TS BUS 8 H
DI TS BUS 10 H
DI TS BUS 12 H
DI TS BUS 14 H
DI DATA 15 H

74LS08 E22
D4 ENA 12 BIT L
D3 RD DB L
D3 EN DATA L
DI EN MUX L

DI TS BUS 11 H — 3097 E42 — DI DATA 11 H
D2 DB SEL 1 L

REVISIONS		
CHK	CHANGE NO.	REV.
	M8029-(0001	C
J.GLAVIN	M8029-ML002	D
C.HOUSE	M8029-ML003	E
J RYAN	M8029-ML005	F
D. POWER	M8029-ML006	H
M.HILDEBRANT	M8029-SHOOT	J
K.PENAL 11-7-83		
P. SOLOMON		

DRN		10/25/77
CHK'D		
ENG		
PROJ. ENG		
PROD		
NEXT HIGHER ASSY.	B-DD-M8029-0	
SCALE		
SHEET 1 OF 4		

FIRST USED ON RX02
digital
TITLE
RXV21 LSI11 (DI) CONTROLLER
SIZE D | CODE CS | NUMBER M8029-0-1 | REV. J
DIST.

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B DAL 13 L — BT2 — BUS 3 — DAT 3 — D2 TS BUS 13 H
B DAL 12 L — BS2 — BUS 2 — DAT 2 — D2 TS BUS 12 H
B DAL 11 L — BR2 — BUS 1 — DAT 1 — D2 TS BUS 11 H
B DAL 14 L — BU2 — BUS Ø — DAT Ø — D2 TS BUS 14 H
DC005 E41
+3V2 — JA3
JA2
JA1
BBS 7 L — AP2 — MEN B
JAV3
JAV2
JAV1
MATCH
XMIT REC

W11 W10 W9 W8 W7 W6 W5 W4 W3 W2

B DAL 9 L — BN2 — D2 TS BUS 9 H
B DAL 8 L — BM2 — D2 TS BUS 8 H
B DAL 7 L — BL2 — D2 TS BUS 7 H
B DAL 15 L — BV2 — D2 TS BUS 15 H
DC005 E45

D3 ENB VEC H — W18 W17 W16 W15 W14 W13 W12
R9 270 +5V

B DAL 6 L — BK2 — D2 TS BUS 6 H
B DAL 5 L — BJ2 — D2 TS BUS 5 H
B DAL 4 L — BH2 — D2 TS BUS 4 H
B DAL Ø L — AU2 — D2 TS BUS Ø H
DC005 E36

XMIT EN 1 H

B DAL 10 L — BP2 — D2 TS BUS 10 H
B DAL 3 L — BF2 — D2 TS BUS 3 H
B DAL 2 L — BE2 — D2 TS BUS 2 H
B DAL 1 L — AV2 — D2 TS BUS 1 H
DC005 E31 — D2 MATCH H

D3 XMIT EN 2 H
D3 DAL REC H

+3V2 — D3 MAS RPLY H
DC006 E47
CNTIA CLK-A S-A CLK-C S-C RD LD RD-A
128 D/F — D2 TS BUS 7 H
64 D/F — D2 TS BUS 6 H
32 D/F — D2 TS BUS 5 H
16 D/F — D2 TS BUS 4 H
8 D/F — D2 TS BUS 3 H
4 D/F — D2 TS BUS 2 H
2 D/F — D2 TS BUS 1 H
1 D/F — D2 TS BUS Ø H
D3 LOAD BAR L
MAX-A MAX-C

DC006 E46
CNTIA CLK-A S-A CLK-C S-C RD LD RD-A
128 D/F — D2 TS BUS 15 H
64 D/F — D2 TS BUS 14 H
32 D/F — D2 TS BUS 13 H
16 D/F — D2 TS BUS 12 H
8 D/F — D2 TS BUS 11 H
4 D/F — D2 TS BUS 10 H
2 D/F — D2 TS BUS 9 H
1 D/F — D2 TS BUS 8 H
D3 EN ADDR H
MAX-A MAX-C

D3 WRT CSR H
D2 TS BUS Ø H
D4 B DONE H
74LSIØ E17 — D2 GO L

D4 LD BAR H
D3 WRT DB H
D3 SRPLY H
74LSIØ E17 — D2 LOAD BAR L

D2 B INIT L — AT2 — 8640 E14 — 7432 E4 — D2 INIT H
7404 E23 — D2 INIT L

D2 TS BUS 14 H
D3 WRT CSR PLS H
74LSØ8 E22 — D2 PROG INIT H

D4 SER DATA H
D4 DONE L
74LSØØ E9
DI DATA 7 H
D4 RX DONE H
74LSØØ E9 — D2 SHFT RT H

D3 WRT CSR PLS H — E4Ø 74LS32

D3 EN ADDR H — 8881 E2Ø — AC1 — D2 BAD 16 H
D2 TS BUS 12 H
D2 TS BUS 13 H
8881 E2Ø — 1Ø AD1 — D2 BAD 17 H

D3 WRT CSR L
D2 INIT L
74LS161 E32
D0 D1 D2 D3 R0(1) R1(1) R2(1) R3(1) CLR LD CLK CNT EN CRY EN CO
1Ø
+3V2

D3 MASTER L
D4 OUT H
74LS32 E2
74LSIØ E3Ø
D3 WRT DB L
D3 WRT CSR L
D2 DB SEL 1 H
7404 E23 — DB SEL 1 L

D4 ENA 8 BIT H — 74LS32 E28 — D2 LO SEL Ø H
D4 RX DONE H — E2 74LS32
D4 ENA 8 BIT L — 74LS32 E28 — D2 HI SEL Ø H

REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	SIZE	CODE	NUMBER	REV.
RXV21 LSI11 CONTROLLER (D2)	D	CS	M8029-Ø-1	J
SCALE —	SHEET 2 OF 4	DIST.		

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R8 680 R7 330 +5V

+5V R5 330 AR2 BOMGI L R6 680

D3 NPR REQST (1) H
D4 OUT H
+3V2
D3 SYNC H
D3 REPLY H
D2 INIT H
D3 8.2 MHZ

DC010 E7 — REQ, BDMGI, DATIN, DATIO, CNTEN, BUSYNC, RPLY, TMOUT, CLK, INIT; BDMR, MASTER, BDMGO, SYNC, DIN, DOUT, ADREN, DATEN

E11 74LS02

8881 E20 — BNI → D3 B SACK L
ANI → D3 B DMR L
AS2 → D3 B DMG 0 L
D3 SYNC 0 H
D3 M DOUT H
D3 EN DATA L

7404 E23 — MASTER L → D3 MDIN H
D3 MASTER H
7432 E4 — D3 MDIN H
7408 E16 — D3 REPLY H, D3 MAS RPLY H
D3 M DIN H
E19 74LS04 — D3 M DIN L
D3 EN ADDR H
8881 E20 — AK2 → D3 BWT BT L
D4 OUT H
74LS04 E19 — D3 MAS RPLY H
74LS02 E11

+3V1 74LS74 E12 — D3 SYNC 0 H
C7 1000pf R2 39.2K 1% +5V
74123 E6
+3V1 74LS74 E12 — D2 INIT L
D3 NXM (0) H
D3 NXM (1) H

D3 RD DB L
7408 E16 — E19 74LS04 — D3 XMIT EN 2 H
D3 RD CSR L
7408 E16 — 8640 E14 — D3 XMIT EN 1 H
D4 ENA 12 BIT L
7408 E16 — D3 DAL REC H

+3V1 74LS74 E9 — D4 NPR REQ H
D3 NPR REQST (1) H
D3 NPR REQST (1) L

+5V 14 8.2MHZ OSC E8 8 W1 → D3 8.2 MHZ 7

B RPLY L AF2
D3 SRPLY H
B DIN L AH2
B DOUT L AE2
B SYNC L AJ2
8641 E1 — D3 REPLY H, D3 DIN H, D3 D OUT H, D3 SYNC H

74LS04 E15 — D3 DIN L, D3 D OUT L, D3 SYNC L

D3 SEL CS L
D3 PROC OUT L
74LS02 E21 — D3 WRT CSR H
7404 E23 — D3 WRT CSR L

D3 WRT CSR PLS H
E21 74LS02 — SRPLY L
74LS04 E15 — D3 WRT CSR PLS H

D3 SEL DB L
D3 PROC OUT L
E21 74LS02 — D3 WRT DB H
74LS04 E15 — D3 WRT DB L

+5V R10 330 AM2 R11 680

DC003 E26 — RQSTA, BIAKI, BINIT, BDIN, RQSTB, ENA DAT, ENB DAT ENB CLK; ENA ST, BIRQ, BIAKO, INITO, VECTOR, VEC RQST, ENB ST ENA CLK

D4 B DONE H
D2 INIT L
D3 DIN L
DI TS BUS 6 H
D3 IE H
AL2 → D3 BIRQ L
D3 ENB VEC H
+5V R13 330 AN2 → D3 BIAKOL R12 680

D3 PROC OUT L
D3 SRPLY L
D4 INHB DB H
74LS32 E2 — D4 SHIFT L, D3 LOAD BAR L
74LS10 E17 — D3 DB CLK H, D2 MATCH H

D3 M DIN L
D3 MDIN H
R15 1K 1%
C21 120pf 5%
E9 74LS00

+5V C9 220pf 1% R4 4.64K 1%
74LS04 E15 — D3 SRPLY L, D3 SRPLY H
R3 1K +5V

D4 ENA 12 BIT H
DI TS BUS 1 H
+3V2
D3 ENB VEC H

DC004 E27 — ENB, SYNC, DAL 2, DAL 1, DAL 0, WTBT, DOUT, DIN, VECTOR; BRPLY, SEL 6, SEL 4, SEL 2, SEL 0, OUT HB, OUT LB, INWD

74LS32 E28 — D3 RD DB L
D3 RD CSR L
D3 IN WRD L
D3 SEL CS L
D3 SEL DB L
D3 PROC OUT L

REVISIONS		
CHK	CHANGE NO.	REV.

TITLE		SIZE	CODE	NUMBER	REV.
RXV21 LSI11 CONTROLLER	(D3)	D	CS	M8029-0-1	J
SCALE	SHEET 3 OF 4	DIST.			

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D4 BUF DONE L
D4 DONE L
D4 RX DONE L
E3 74LS02
D4 BB DONE H
E14 8640
D4 INHB DB H

+3V1
D3 74LS193 E25
D2 INIT H
D2 GO L
D4 CNTR CLK H
+3V1
RC(1) R1(1) R2(1) R3(1)
CUP CDN CRY BOR

256X8 E24
D4 NPR MODE H
D4 DEFUNCT 0 H
D4 DEFUNCT 1 H
D4 OUT H
D4 RX DONE H
D4 B DONE H
A0 A1 A2 A3 A4 A5 A6 A7
Y0 Y1 Y2 Y3 Y4 Y5 Y6 Y7
CS1 CS2
D4 BBTR H

74174 E18
D5 D4 D3 D2 D1 D0
R5(1) R4(1) R3(1) R2(1) R1(1) R0(1)
CLK CLR
D4 RUN CLOCK H
D4 NPR REQ H
D4 LD WC H
D4 ENA 16 BIT H
D4 NPR MODE H
D2 INIT L

D3 MAS RPLY H
D4 RUN CLOCK H
E4 7432
D3 WRT DB H
E4 7432
E10 74LS74
D4 RUN (1) H
D4 RUN (Ø) L
E35 8881
D4 RX RUN L

D4 SHIFT H
D2 INIT H
E3
74LSØ2

D4 RX AC LO H
D4 BB DONE H
E4Ø
74LS32
D4 B DONE H

E15 74LSØ4
D4 BUF DONE L

+5V R32 18Ø VV D4 RX DMA H
+5V R26 1K FF D4 RX 12 BIT L
+5V R19 12Ø N D4 RX INIT L

D4 SHIFT L
D4 ENA 12 BIT L
E3 74LSØ2
E4Ø 74LS32
D4 CNTR CLK H
D2 GO L
D2 LOAD BAR L
D4 TR PLS L
E3Ø 74LS27
E19 74LSØ4
D4 LATCH CLK L

D2 INIT H
E35 8881
B POK H
BBI
E14 8640
D4 BUS POK L

D4 LD WC H
+5V
JI
RX DONE L
RX OUT L
RX ERROR L
RX SHIFT L
RX TRANSFER REQUEST L
RX AC LO L
R22 18Ø
R23 39Ø
R29 18Ø
R30 39Ø
R18 18Ø
R17 39Ø
R27 18Ø
R28 39Ø
R21 18Ø
R20 39Ø
R3 3ØØ
E44 8640
E19 74LSØ4
D4 DONE L
D4 RX DONE H
D4 OUT H
D4 RX AC LO H
E4Ø 74LS32
D4 B ERROR H
D4 ERROR H
D4 DONE L
E23 7404
D4 SHIFT L
D4 SHIFT H
E48 8640
D4 TR H
D4 RX AC LO H

D4 ENA 12 BIT DI DATA 11
D4 ENA 8 BIT DI DATA 7
D4 ENA 16 BIT DI DATA 15
D4 OUT H
E13 74LS54
E48 8640
E35 8881
R24 39Ø
R25 18Ø
E48 8640
D4 SER DATA H
BB D4 RX DATA L

C8 1ØØpf
R1 1ØK +5V
+3V1
D4 TR H
D4 LD WC H
E11 74LSØ2
E6 74123
D4 TR PLS L

D4 RUN CLOCK H
D2 INIT L
E22 74LSØ8
D4 TR H
D4 RUN (1) H
E5 74S74
D4 ENA 12 BIT L
D4 ENA 16 BIT H
D4 ENA 12 BIT H
E11 74LSØ2
E19 74LSØ4
D4 ENA 8 BIT L
D4 ENA 8 BIT H

D4 BBTR H
D4 LATCH CLK L
D2 INIT H
D4 RUN (1) H
E5 74S74
E3 74LSØ2
D4 BTR H
R16 1K
R14 1K
+3V2

DI FUNCT 2 H
DI FUNCT 1 H
DI FUNCT Ø H
D4 BUF DONE L
D3 NPR REQST (1) L
E21 74LSØ2
E30 74LSØ
E29 74LS74
D4 DEFUNCT 2 H
D4 DEFUNCT 1 H
D4 DEFUNCT Ø H

REVISIONS
CHK | CHANGE NO. | REV.

TITLE (D4) RXV21 LSI11 CONTROLLER
SIZE D | CODE CS | NUMBER M8029-Ø-1 | REV. J
SCALE | SHEET 4 OF 4 | DIST.

M8029-Ø-1 REV. J DCS

DIGITAL EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

PARTS LIST

MADE BY ROBERT MORIN DATE 5 SEPT 178	CHECKED RBMorin DATE 8 SEPT 78	SECTION
ENG RBMorin DATE 8 SEPT 78	PROD Jm. Dunlavey. DATE 9-8-78	ISSUED SECT.

ITEM NO.	DWG NO./PART NO.	DESCRIPTION	QUANTITY/VARIATION RXV21-Ø-3
1	MP00628	RXV21 PRINT SET	1
2	MP00629	RX02 PRINT SET	1
3	EK-RX02-UG	RX02 USER'S GUIDE	1
4	ZJ279-RB	LIB KIT	1

TITLE RXV21, SOFTWARE LIST	ASSY NO. B-DD-RXV21-Ø SHEET 1 OF 1	SIZE A	CODE PL	NUMBER RXV21-Ø-3	REV. RXV21-ML001	ECO NO. A

DEC FORM DEC 16-(325)-1031-N870
DRA 110

DIGITAL EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

PARTS LIST

MADE BY	ROBERT MORIN	CHECKED	R.P. Morin	SECTION	
DATE	5 SEP 78	DATE	8 SEP 78		
ENG	R.P.MORAN	PROD	M. DURHAM	ISSUED SECT.	
DATE	8 SEP 78	DATE	8 SEP 78		

ITEM NO.	DWG NO./PART NO.	DESCRIPTION	QUANTITY/VARIATION											
			RXV21-0	RXV21-AA	RXV21-AC	RXV21-AD	RXV21-BA	RXV21-BC	RXV21-BD	RXV21-DA	RXV21-DC	RXV21-DD	RXV21-EA	RXV21-EC
1	D-UA-M8029-0-0	RXV21 LSI-11 RX02 CONTROLLER	1	1	1	1	1	1	1	1	1	1	1	1
2	E-UA-RX02-0-0	RX02 FLOPPY DISK DRIVE ASSY.	-	1	1	1	1	1	1	1	1	1	-	-
3	C-AD-7012405-0-0	I/O CABLE ASSY. W/MTG. BRKT.	-	-	-	-	-	-	-	1	1	1	-	-
4	D-IA-7412853-0-0	DUAL DRIVE FRONT PLATE	-	-	-	-	-	-	-	1	1	1	-	-
5	A-PL-RXV21-0-3	SOFTWARE SHIP LIST	1	1	1	1	1	1	1	1	1	1	1	1
6	ZJ279-RB	LIB KIT	1	1	1	1	1	1	1	1	1	1	1	1
7	E-UA-RX02M-0-0	(UNIT ASSEMBLY RX02M	-	-	-	-	-	-	-	-	-	-	1	1
8	A-PS-1700220-01	CABLE (10 FT.)	-	-	-	-	-	-	-	-	-	-	1	1

TITLE	ASSY NO.	SIZE	CODE	NUMBER	REV.	ECO NO.
SHIPPING LIST, RXV21	B-DD-RXV21-0	A	PL	RXV21-0-2	B	RXV21-ML002
	SHEET 1 OF 2	DIST.				

DEC FORM DEC 16-(325)-1031-N870
DRA 110

DIGITAL EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

PARTS LIST

MADE BY	ROBERT MORIN	CHECKED	R.P. MORIN	SECTION	
DATE	5 SEP 78	DATE	8 SEP 78		
ENG	R.P. MORIN	PROD	M. Durham	ISSUED SECT.	
DATE	8 SEP 78	DATE	8 SEP 78		

ITEM NO.	DWG NO./PART NO.	DESCRIPTION	QUANTITY VARIATION											
			RXV21-ED											
1	D-UA-M8029-0-0	RXV21 LSI-11 RX02 CONTROLLER	1											
2	E-UA-RX02-0-0	RX02 FLOPPY DISK DRIVE ASSY.	-											
3	C-AD-7012405-0-0	I/O CABLE ASSY. W/MTG. BRKT.	-											
4	D-IA-7412853-0-0	DUAL DRIVE FRONT PLATE	-											
5	A-PL-RXV21-0-3	SOFTWARE SHIP LIST	1											
6	ZJ279-RB	LIB KIT	1											
7	E-UA-RX02M-0-0	UNIT ASSEMBLY RX02M	1											
8	A-PS-1700220-01	CABLE (10 FT.)	1											

TITLE	ASSY NO.	SIZE	CODE	NUMBER	REV	ECO NO.
SHIPPING LIST, RXV21	B-DD-RXV21-0	A	PL	RXV21-0-2	B	RXV21-ML002
	SHEET 2 OF 2	DIST				

DEC FORM
DRA 110